

DS-200WJIG



Features

- Drive 1 to 6-lamps
- Nominal current 8.0 mArms for each lamp
- LED Indication of each lamp operation or failure
- All lamps operate at the same frequency
- 15 V input voltage
- Accurate each lamp current control
- Accurate and stable output current regulation
- Wide dimming control range by PWM
- Protection against lamp open or failure for each lamp
- Protection against lamp connector misconnections
- No failure on the output shortage condition
- Long lamp life with soft start
- High efficiency

Applications

- Universal LCD module test jig
- 10~23" desk top monitor

Electrical characteristics

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		13.5	15.0	16.5	V
Input current	I_{IN}	$V_{IN}=15V, V_{BRT}=0V$	2.2	2.5	2.8	A
Full bright lamp current	$I_{O(MAX)}$	$V_{IN}=15V, V_{BRT}=0V$	7.7	8.2	8.7	mArms
Minimum lamp current	$I_{O(MIN)}$	$V_{IN}=15V, V_{BRT}=5.0V$	1.8	2.5	3.3	mArms
Current Balancing(Max)		$V_{IN}=15V, V_{BRT}=0V$		0.25	0.5	mArms
Operating frequency	F_O	$V_{IN}=15V, V_{BRT}=0V$	40	46	52	KHz
Open lamp output voltage	V_O	each lamp open		0		Vrms
Dimming ratio		$V_{IN}=12V, V_{BRT}=0 \text{ to } 5.0V$	5 : 1			
Striking time	T_{scp}	$V_{IN}=12V, V_{BRT}=5.0V$	0.1	0.5		sec
Efficiency		$V_{IN}=12V, V_{BRT}=5.0V$		80		%

* At the reference 20.1"LCD-Module(LM201U04) of LG-Philips

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Absolute maximum ratings

Input supply voltage (V_{IN})	-----	-0.3V to 15V
Output voltage, no load	-----	Internally limited to zero volt
Output current (I_O)	-----	10.0mAmps
Output power (per lamp)	-----	8.0W
Sleep & Bright adjust signal voltage (V_{SLEEP} , V_{BRT})	----	-0.3V to V_{IN}
Ambient operating temperature	-----	0 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

Recommended operating conditions (R.C.)

Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	13.5	15.0	16.5	V
Full bright lamp current	$I_{O(MAX)}$	7.5	8.0	8.5	mAmps
Brightness control voltage range	V_{BRT}	5.0		0	V
Lamp on/off control voltage(ON)	V_{SLEEP}	2.0	3.3	5.0	V
Lamp on/off control voltage(OFF)	V_{SLEEP}	0		0.6	V
Lamp operating voltage	V_O	700	750	800	Vrms

Connector and functional pin description

CN1 Connector [2-Types available-Option, 53261(Molex or equivalent) & SMAW200(Yeonho or eq.)]

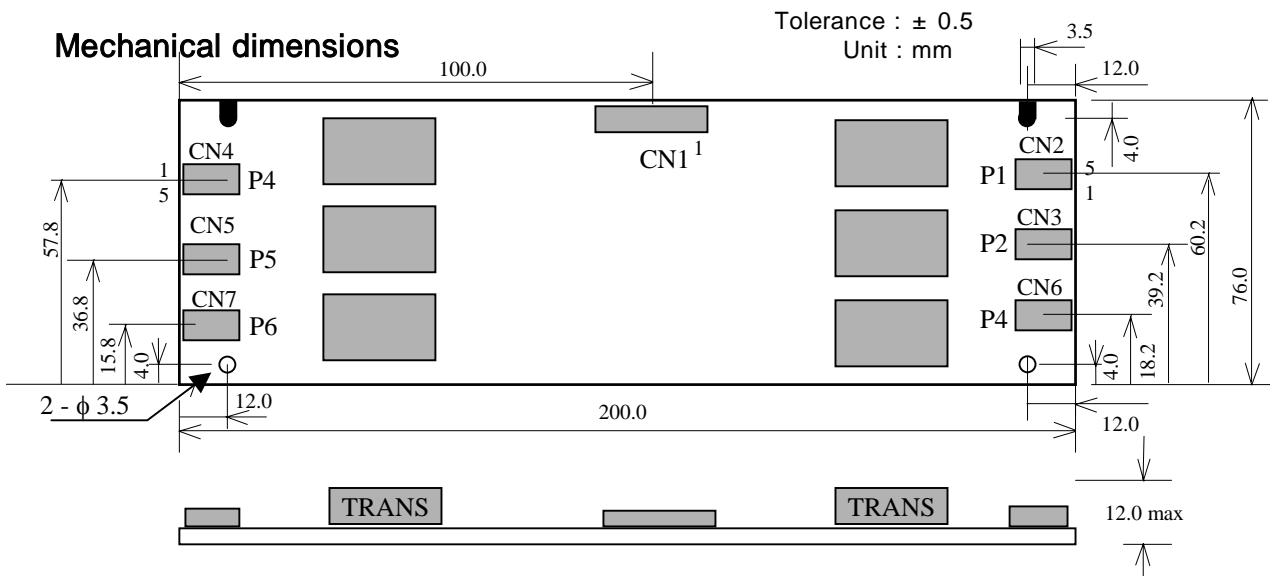
(53261 - 1290) (SMAW200 - 08P)

- CN1 - 10~12 6~8 V_{IN} (DC Input ; 15.0V)
- CN1 - 4,5,6,9,10 3~5 G_{ND} (Power supply return)
- CN1 - 8 2 V_{SLEEP} (On/Off control ; Off at Low, On at High)
- CN1 - 12 1 V_{BRT} (Bright adjust ; 0 to 5.0V)
- CN1 - 7,11 - N.C

CN2,3,4,5,6,7 Connector : 35312-0510(Molex or Equivalent)

- CN2,3,4,5,6,7 - 1 High voltage
- CN2,3,4,5,6,7 - 5 Lamp current return

Mechanical dimensions



Notice : The specification is subject to change without notice